

FP1 – Conics Questions

[June 2013] 4.

The rectangular hyperbola H has Cartesian equation $xy = 4$.

The point $P\left(2t, \frac{2}{t}\right)$ lies on H , where $t \neq 0$.

(a) Show that an equation of the normal to H at the point P is

$$ty - t^3x = 2 - 2t^4 \quad (5)$$

The normal to H at the point where $t = -\frac{1}{2}$ meets H again at the point Q .

(b) Find the coordinates of the point Q .

(4)

[June 2013] 6.

A parabola C has equation $y^2 = 4ax$, $a > 0$

The points $P(ap^2, 2ap)$ and $Q(aq^2, 2aq)$ lie on C , where $p \neq 0$, $q \neq 0$, $p \neq q$.

(a) Show that an equation of the tangent to the parabola at P is

$$py - x = ap^2 \quad (4)$$

(b) Write down the equation of the tangent at Q .

(1)

The tangent at P meets the tangent at Q at the point R .

(c) Find, in terms of p and q , the coordinates of R , giving your answers in their simplest form.

(4)

Given that R lies on the directrix of C ,

(d) find the value of pq .

(2)

June 2013 Fp1 Past Paper

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June 2013 Fp1 Past Paper:

Unveiling the Energy of Verbal Art: An Mental Sojourn through **June 2013 Fp1 Past Paper**

In a world inundated with screens and the cacophony of instant conversation, the profound energy and emotional resonance of verbal art usually diminish in to obscurity, eclipsed by the regular onslaught of sound and distractions. Yet, located within the musical pages of **June 2013 Fp1 Past Paper**, a charming function of fictional elegance that pulses with raw feelings, lies an unique journey waiting to be embarked upon. Written by a virtuoso wordsmith, this magical opus manuals readers on a mental odyssey, delicately exposing the latent possible and profound impact embedded within the elaborate internet of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is central styles, dissect its interesting writing fashion, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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